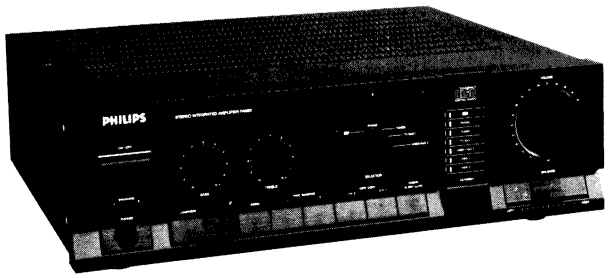
Amplifier 70FA860/00R/01R/05R

Service
Service
Service

AS23



Service Manual

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Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne".

Subject to modification

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PHILIPS

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Service Consumer Electronics

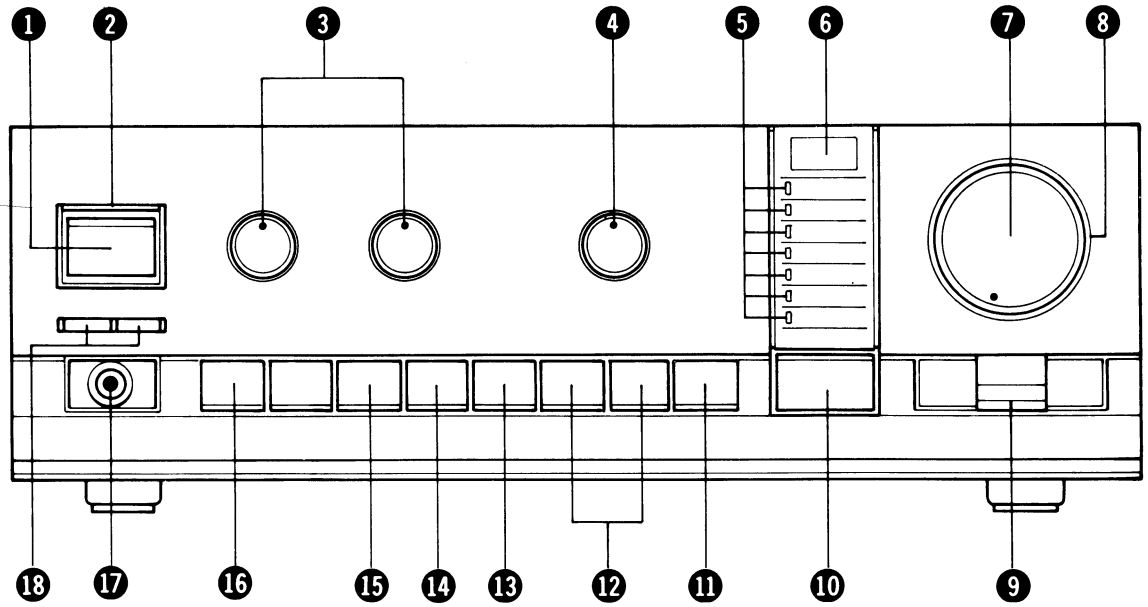
SPECIFICATION	Nominal value	Typical value
General		
Mains voltage	: 220V ~ Service solution for 220V – 240V	: 220V ~ Service solution for 110V – 120V – 220V – 240V
Mains frequency	: 50 – 60 Hz	: 50 – 60 Hz
Power consumption	: 265W at rated power	: 350W at rated power
Dimensions (WxHxD)	: 420 x 118 x 334 mm	: 416 x 118 x 334 mm
Weight	: 10 kg	: 10 kg
Amplifier		
Output power	: 65W in 8Ω (FTC) D < 0.03% 70W in 8Ω (IEC)	: 65W in 8Ω (FTC) D < 0.03% 70W in 8Ω (IEC)
Power bandwidth (8Ω)–3 dB of rated power	: 15 Hz – 25 kHz D < 0.03%	: 10 Hz – 30 kHz D < 0.03%
Distortion		
T.H.D.	: ⩽ 0.008% at 1 kHz ⩽ 0.3% at 40 Hz – 10 kHz (IEC)	: ⩽ 0.008% at 1 kHz ⩽ 0.03% at 40 Hz – 10 kHz (IEC)
Intermodulation	: ⩽ 0.03% at 60/7000 Hz 4:1	: ⩽ 0.03% at 60/7000 Hz 4:1
Frequency characteristic		
Phono input (tone defeat)	: from 40 Hz – 20 kHz ±1 dB (IEC)	: from 20 Hz – 20 kHz ±0.5 dB (IEC)
Other inputs (tone defeat)	: from 20 Hz – 20 kHz ±0.5 dB	: from 20 Hz – 40 kHz ±0.5 dB
Bass control	: at 100 Hz +10 dB to –10 dB ±2 dB	: at 100 Hz +10 dB to –10 dB
Treble control	: at 10 kHz +10 dB to –10 dB ±2 dB	: at 10 kHz +10 dB to –10 dB
Loudness	: at 100 Hz +6 dB ±1.5 dB (Tap position) at 10 kHz +4 dB ±1.5 dB (Tap position)	: at 100 Hz +6 dB (Tap position) at 10 kHz +4 dB (Tap position)
Phono overload		
MM	: 100 mV at 1 kHz	: 120 mV at 1 kHz
MC	: 10 mV at 1 kHz	: 12 mV at 1 kHz
Signal/noise ratio weighted (A-curve)		
Phono input	: for 1W output ⩾ 80 dB (IEC)	: for 1W output ⩾ 80 dB (IEC)
Other inputs	: for 1W output ⩾ 88 dB (IEC)	: for 1W output ⩾ 88 dB (IEC)
Channel separation	: at 1000 Hz ⩾ 70 dB at 250 Hz – 10 kHz ⩾ 56 dB	: at 1000 Hz ⩾ 70 dB at 250 Hz – 10 kHz ⩾ 56 dB
Input sensitivity		
Phono MC	: 0.25 mV at 100Ω	: 0.25 mV at 100Ω
Phono MM	: 2.5 mV at 47 kΩ	: 2.5 mV at 47 kΩ
Linear inputs	: 150 mV at 20 kΩ	: 150 mV at 20 kΩ
Outputs (Phono MM 7.75 mV 1 kHz input)		
Tape	: 465 mV ± 90 mV at 220Ω	: 465 mV at 220Ω
Damping factor (8Ω)	: 120 at 20 Hz : 100 at 10 kHz	: 120 at 20 Hz : 100 at 10 kHz

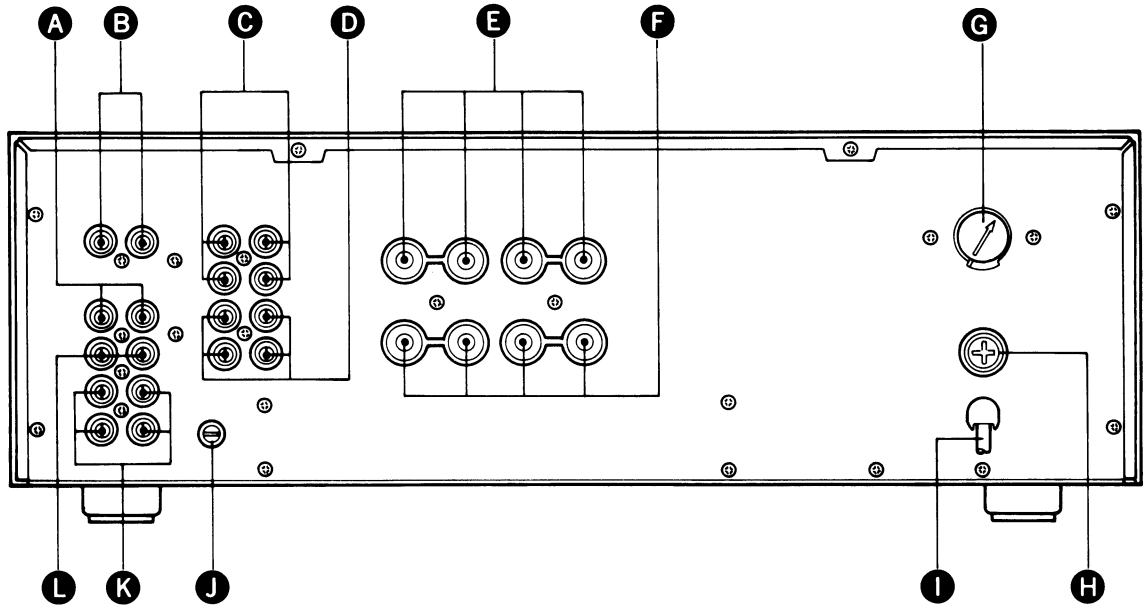
Caution ⚡ 220 V/240 V

Removal of upper cabinet exposes the protruding current-carrying parts of mains switch and mains transformer, therefore extreme care should be taken when the apparatus is connected to the mains.

Uncasing instructions

See for the uncasing instructions exploded view on page 19 ~ 24.





CONNECTIONS AND CONTROLS

1	Mains switch	S901
2	Mains switch illumination	VZ01
3	Tone control	RE65, RE66
4	Function switch	S001, SV01
5	Function indicator	DY01~DY07
6	CD direct indicator	VY01
7	Volume control	RG05
8	Volume control illumination	VZ51, VZ52
9	Balance control	RG51
10	CD direct switch	SS03
11	Phono MM/MC switch	SS02
12	Tape copy switch	SS02
13	Tape monitor 2 switch	SS02
14	Tape monitor 1 switch	SS01
15	Mono switch	SS01
16	Loudness switch	SS01
17	Headphone socket	JW51
18	LS switch	ST01

A	CD input	JV01
B	Phono input	J403
C	Tape 1 monitor input/output	JJ01
D	Tape 2 monitor input/output	JJ02
E	LS output A	J701, J702
F	LS output B	J701, J702
G	Voltage selector (/01R version only)	J091
H	Fuse holder	J001
I	Mains cord	W001
J	Ground terminal	J053
K	Aux 1/TV, Aux 2/LV input	JV02
L	Tuner input	JV02

SCHEMATIC DIAGRAM

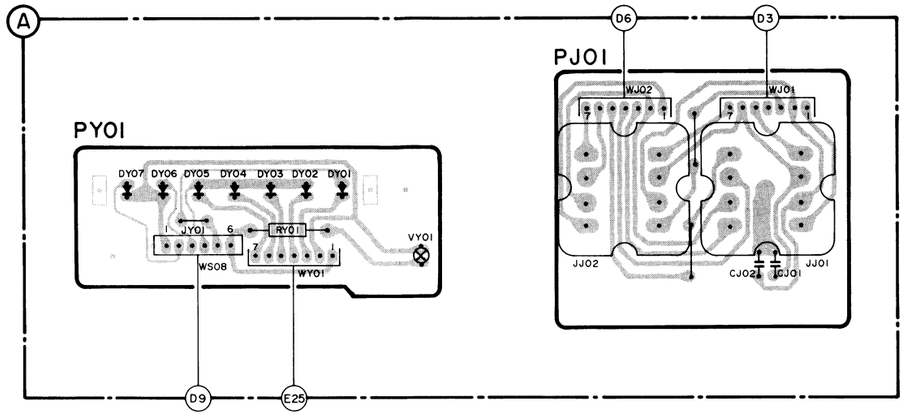
R	RY51 RS08 RS09 R401 R403 R405 RS03 R411 R428 R415 R413 R427 R407 R409 R419 R421 R423 R425 RG51 RG01 RE23 RG05 RE01 RE21 RE03 RE57 RE55 RE27 RE05 RS01 RS02 RS11 RS07 RS05 RS10 R402 RS06 R404 R406 RS04 R412 R416 R414 R408 R410 R422 R420 R424 R426 RG02 RE24 RE02 RE22 RE04 RE58 RE28 RE56 RE06 RE
C	CV01 ~ CV08 C419 CS01 C401 C403 C425 C405 C427 C429 C411 C407 C409 C413 C415 C423 CG01 CE15 CG03 CE01 CE03 C CJ01 CJ02 C420 CS02 C402 C404 C426 C406 C428 C430 C412 C408 C410 C414 C416 C424 CG51 CG52 CG02 CE16 CG04 CE02 CE06 CE05 CE04 C
Q-D-V	DY51 ~ DY55 DV02 DV03 VY51 DY56 DS02 ~ DS04 DS01 DY57 Q402 Q401 Q404 Q403 Q405 QE01 QE02
L-S	SV01-2/2 SV01-1/2 SS03-1/5 LV02 SS01-1/6 SS03-2/5 SS01-2/6 SS02-1/5 ~ SS02-5/5 SS03-3/5 SS01-3/6 SS01-4/6

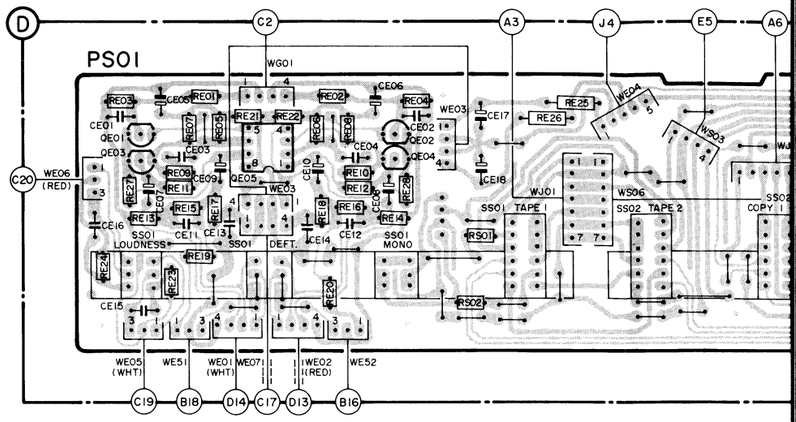
SCHEMATIC DIAGRAM

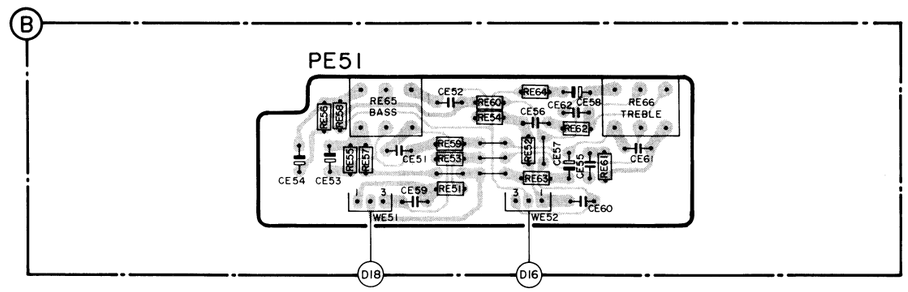
| | | |

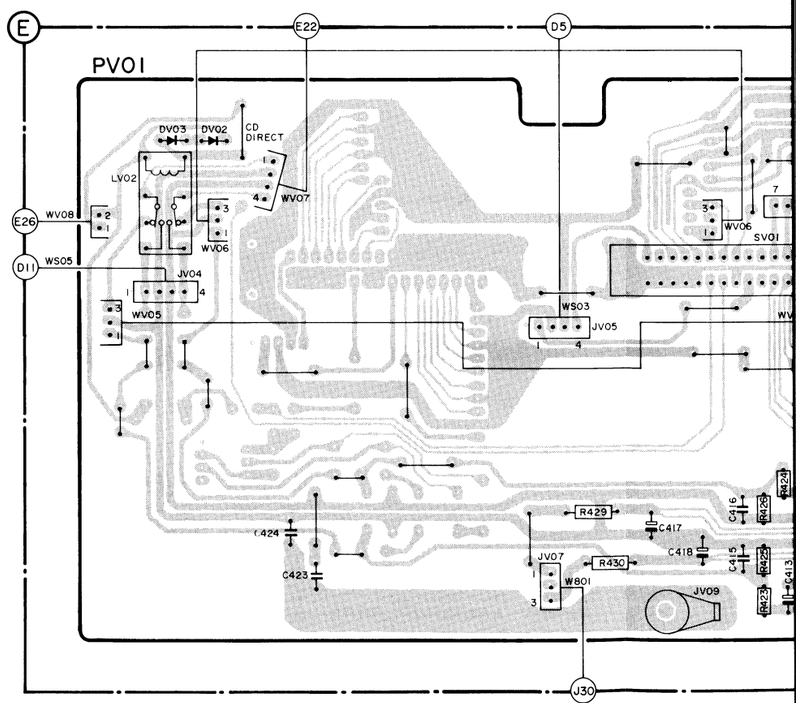
WIRING DIAGRAM

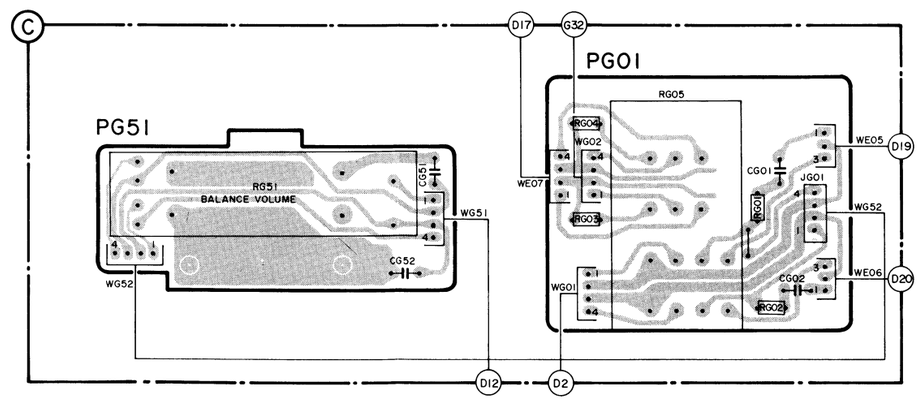
R	RY01 RE56 RE58 RE55 RE57 RE59 RE53 RE51 RE60 RE54 RE64 RE62 RE66 RE03 RE27 RE11 RE09 RE07 RE01 RE05 RE21 RE22 RE06 RE02 RE08 RE10 RE12 RE04 RE28 RE26 RE25
	RG51 RE65 RE52 RE63 RE61 RG04 RG03 RG05 RG01 RG02 RE24 RE13 RE15 RE23 RE17 RE19 RE20 RE18 RE16 RE14 RS01 RS02 R429 R430 R423 ~ R426 R421
C	CE54 CE53 CE51 CE59 CE52 CE56 CE58 CE62 CE57 CE55 CE60 CE61 CJ02 CJ01 CE16 CE01 CE05 CE07 CE03 CE09 CE10 CE04 CE06 CE02 CE17
	CG52 CG51 CG01 CG02 CE15 CE11 CE13 C424 C423 CE14 CE12 CE08 CE18 C417 C418 C4
Q - D - V	DY07 DY06 DY05 DY04 DY03 DY02 DY01 VY01 QE01 QE03 DV02 DV03 QE05 QE02 QE04
L - S	LV02 SS01 SS02





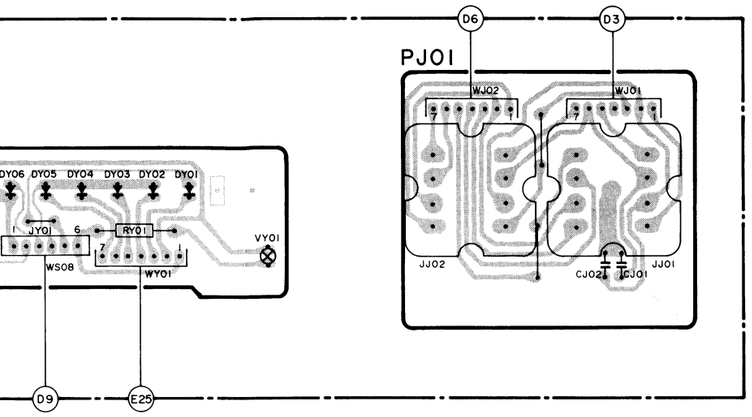


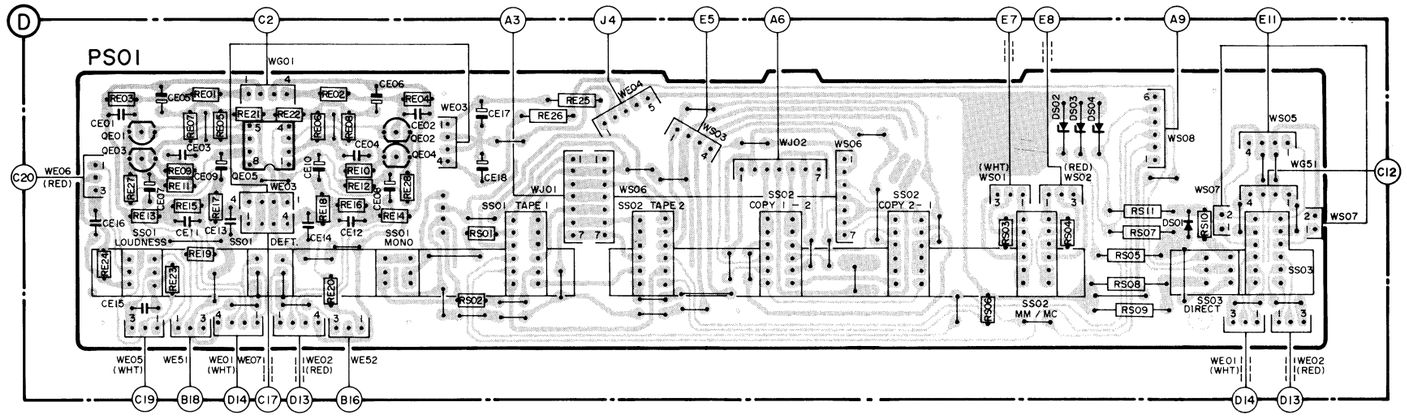


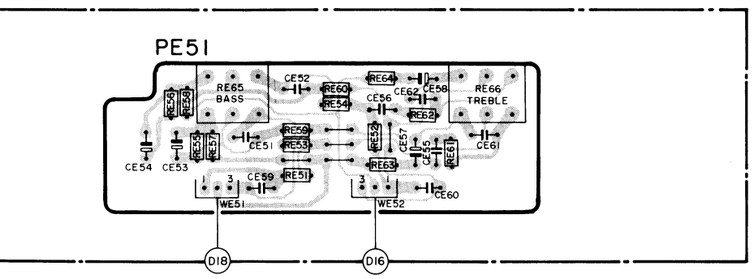


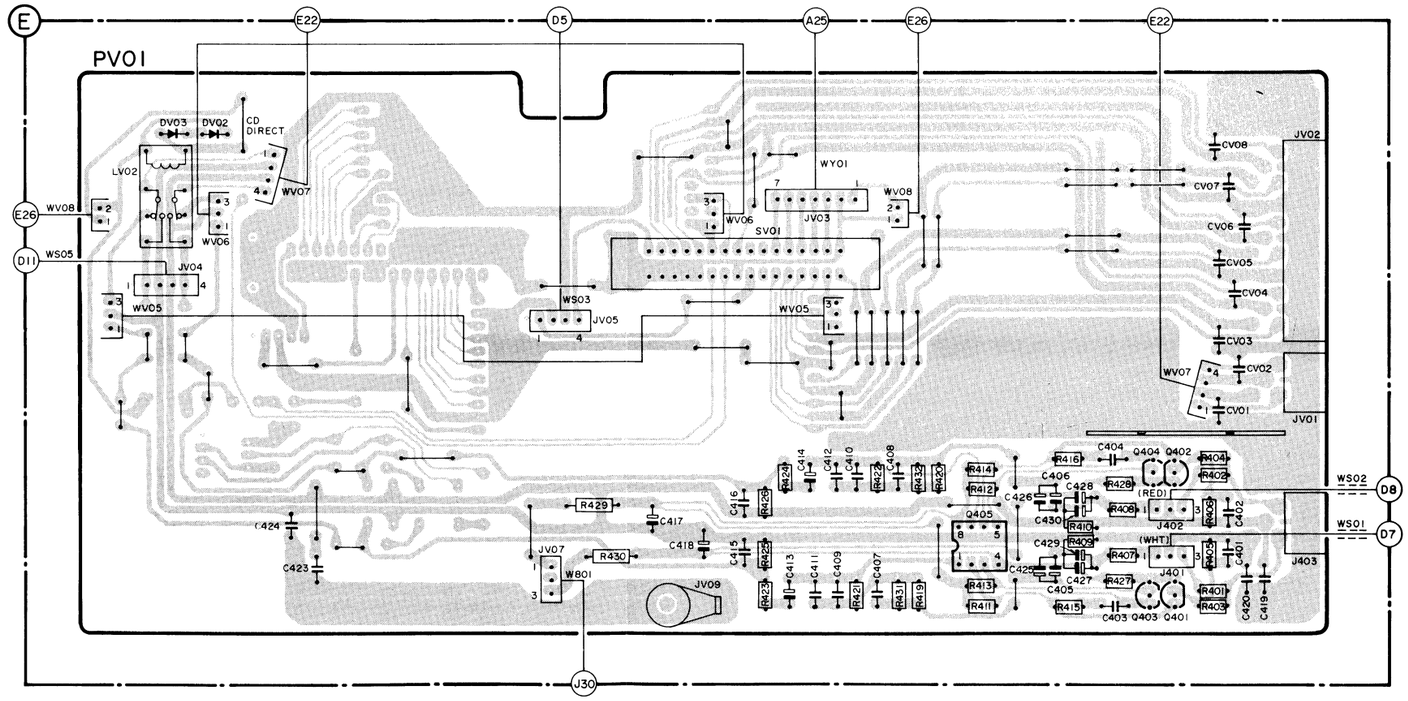
WIRING DIAGRAM

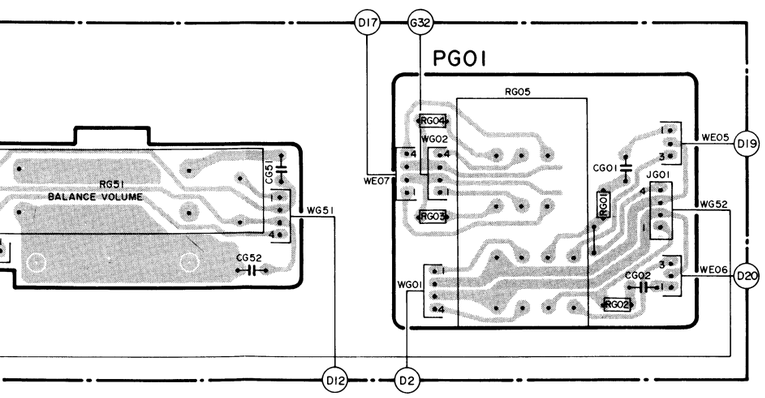
RY01 RE56 RE58 RE55 RE57 RE59 RE53 RE51 RE60 RE54 RE64 RE62 RE66	RE03 RE27 RE11 RE09 RE07 RE01 RE05 RE21 RE22 RE06 RE02 RE08 RE10 RE12 RE04 RE28 RE26 RE25 RS06 RS03 RS04 RS11 RS07 RS05 RS08 RS09 RS10	R
RE65 RE52 RE63 RE61 RG04 RG03 RG05 RG01 RG02	RE24 RE13 RE15 RE23 RE17 RE19 RE20 RE18 RE16 RE14 RS01 RS02 R429 R430 R423 ~ R426 R421 R422 R432 R431 R419 R420 R411 ~ R414 R415 R416 R407 ~ R410 R427 R428 R401 ~ R406	
CE54 CE53 CE51 CE59 CE52 CE56 CE58 CE62 CE57 CE55 CE60 CE61 CJ02 CJ01	CE16 CE01 CE05 CE07 CE03 CE09 CE10 CE04 CE06 CE02 CE17 CV01 ~ CV08 C419	C
CG52 CG51 CG01 CG02	CE15 CE11 CE13 C424 C423 CE14 CE12 CE08 CE18 C417 C418 C415 C416 C409 C414 C407 C408 C425 ~ C430 C405 C406 C404 C403 C401 C402 C420	
DY05 DY04 DY03 DY02 DY01 VY01	QE01 QE03 DV02 DV03 QE05 QE02 QE04 Q405 DS02 DS04 Q401 ~ Q404 DS01	Q - D - V
LV02 SS01 SS02 SV01 SS03		L - S





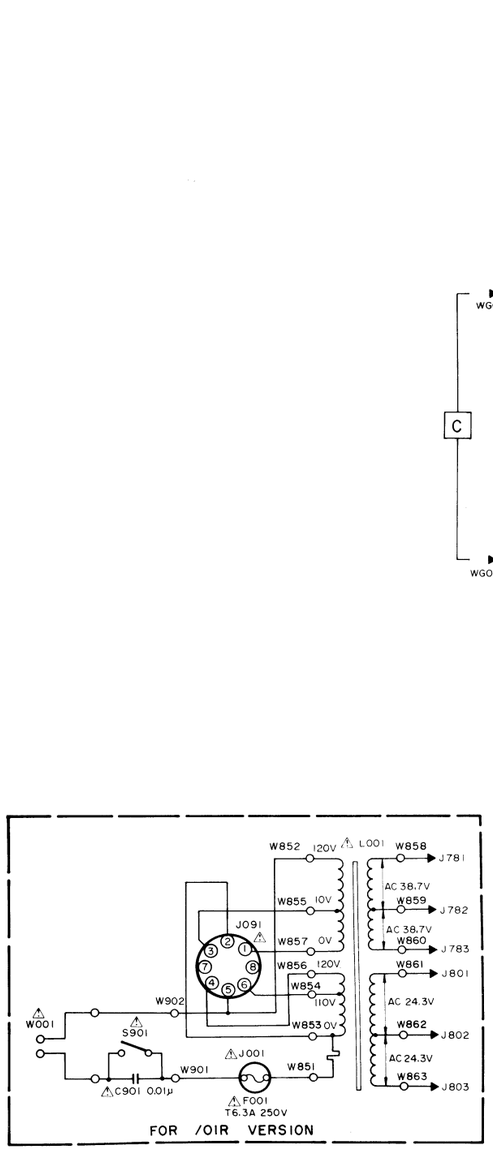


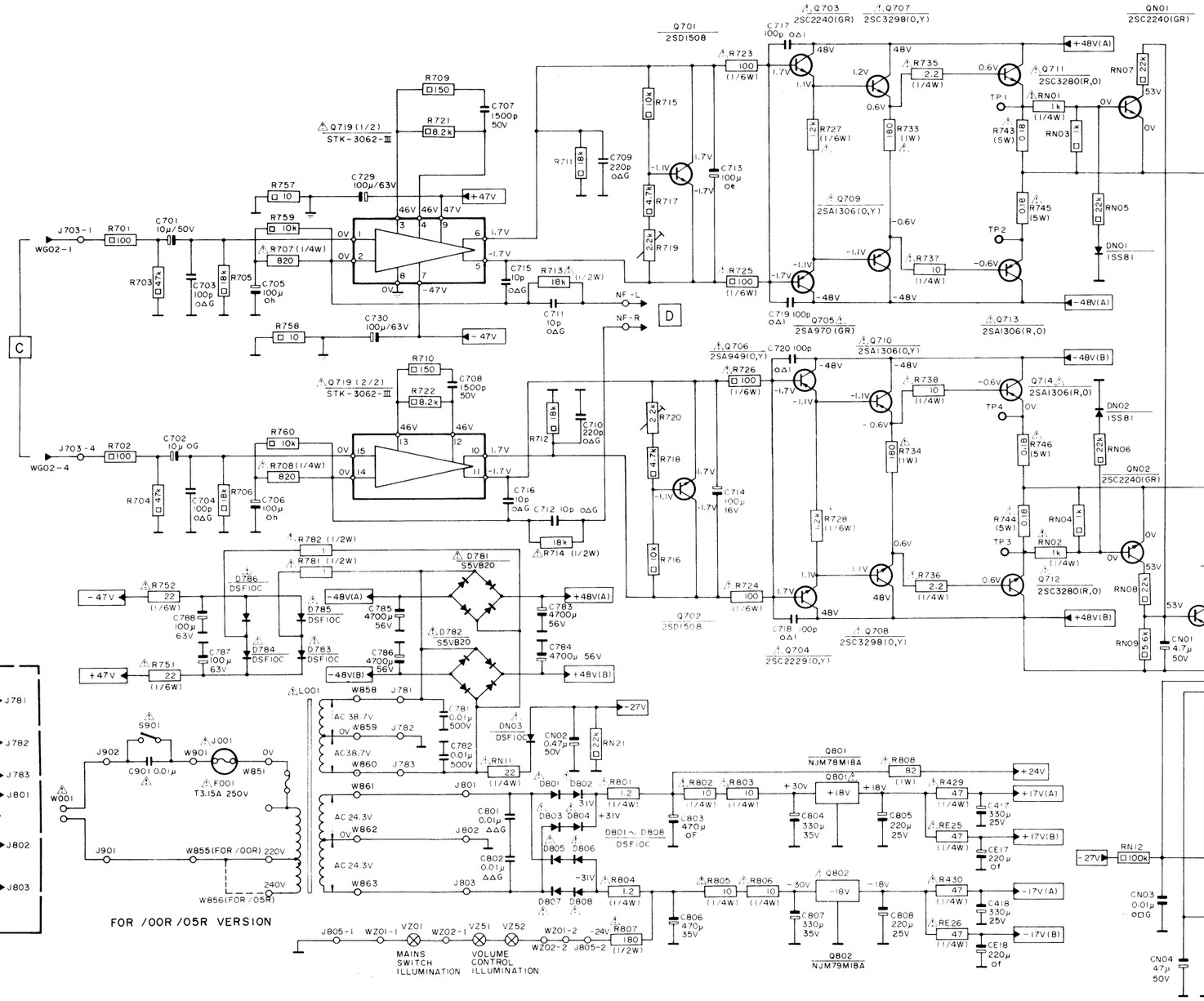




SCHEMATIC DIAGRAM

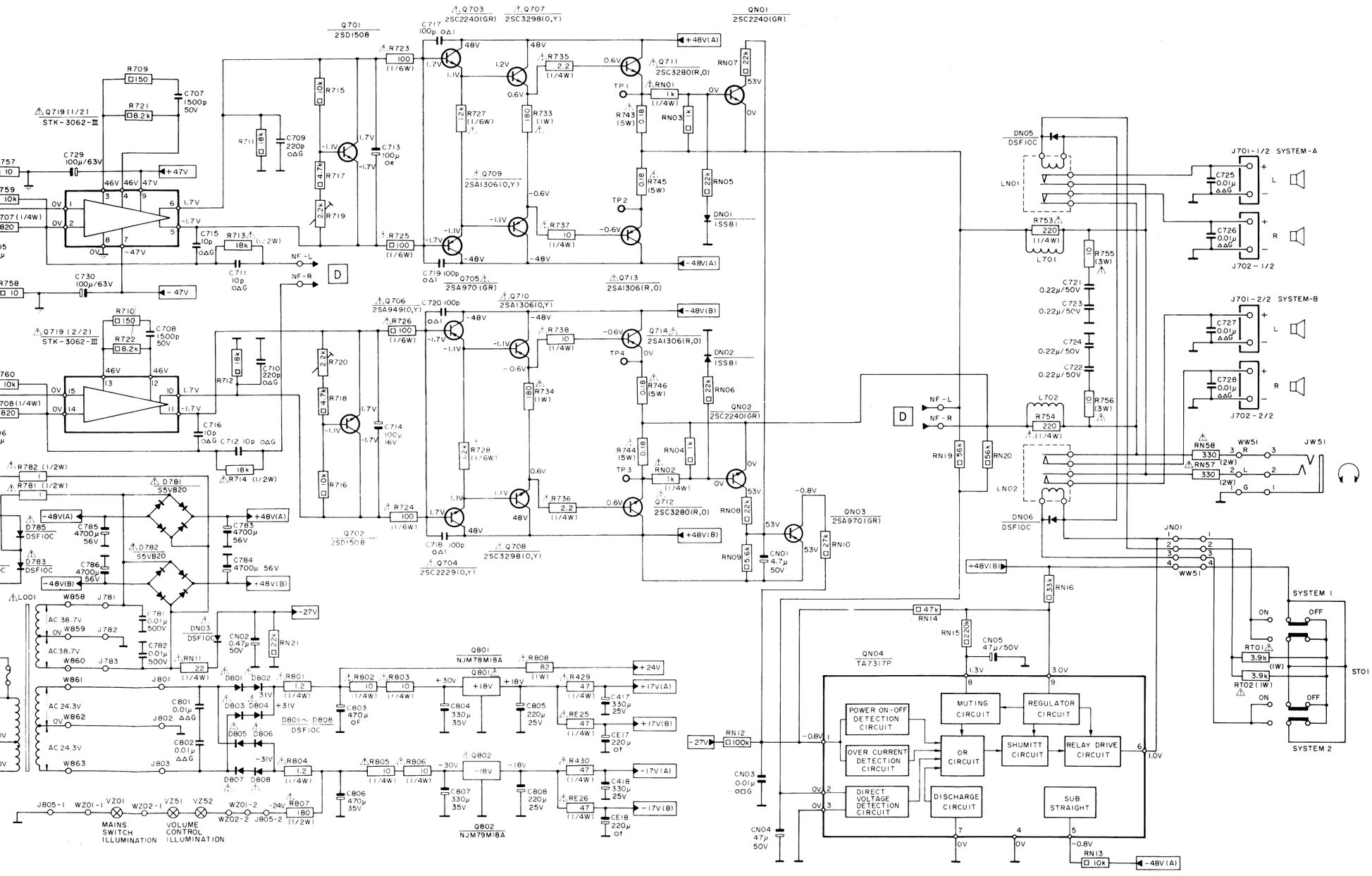
R	R701 R703 R705 R757 R759 R760 R707 R758 R709 R721 R713 R711 R715 ~ R720 R723 ~ R726 R727 R728 R733 ~ R738 R743 ~ R746 RN01 ~ RN06 RN07 ~ RN09 RN10 RN19 RN20 R753 R754 R R702 R704 R752 R751 R706 R708 R782 R781 R710 R722 RN11 R714 R712 RN21 R801 R804 R807 R802 R803 R805 R806 R808 R429 R430 RE25 RE26 RN12 RN14 RN15 R716
C	C701 ~ C704 C705 C706 C729 C730 C708 C707 C715 C716 C711 C712 C709 C710 C713 C714 C717 ~ C720 C C901 C901 C788 C787 C785 C786 C781 C782 C801 C802 CN02 C783 C784 C803 C806 C804 C807 C805 C808 C417 C418 CE17 CE18 CN01 CN03 CN04 CN05
Q-D-V	D783 ~ D786 VZ01 Q719-1/2 Q719-2/2 D781 D782 VZ51 VZ52 DN03 D801 ~ D808 Q701 Q702 Q801 Q802 Q703 ~ Q706 Q707 ~ Q710 Q711 ~ Q714 DN01 DN02 QN01 QN02 QN03 QN04 DN05
L-S	S901 L001 S901 L001 LN01 LN02 L





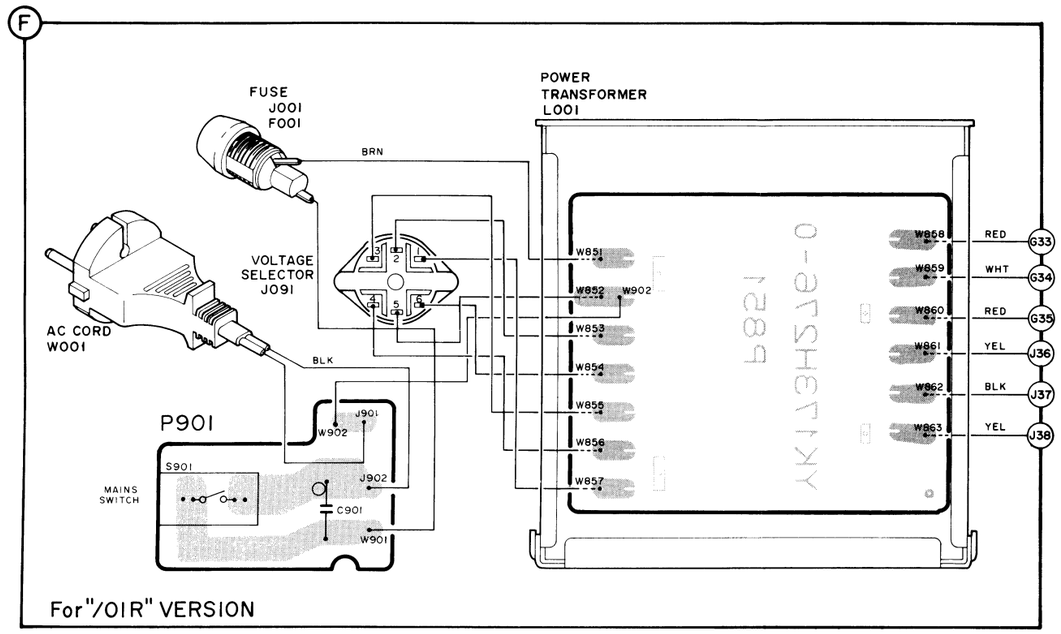
SCHEMATIC DIAGRAM

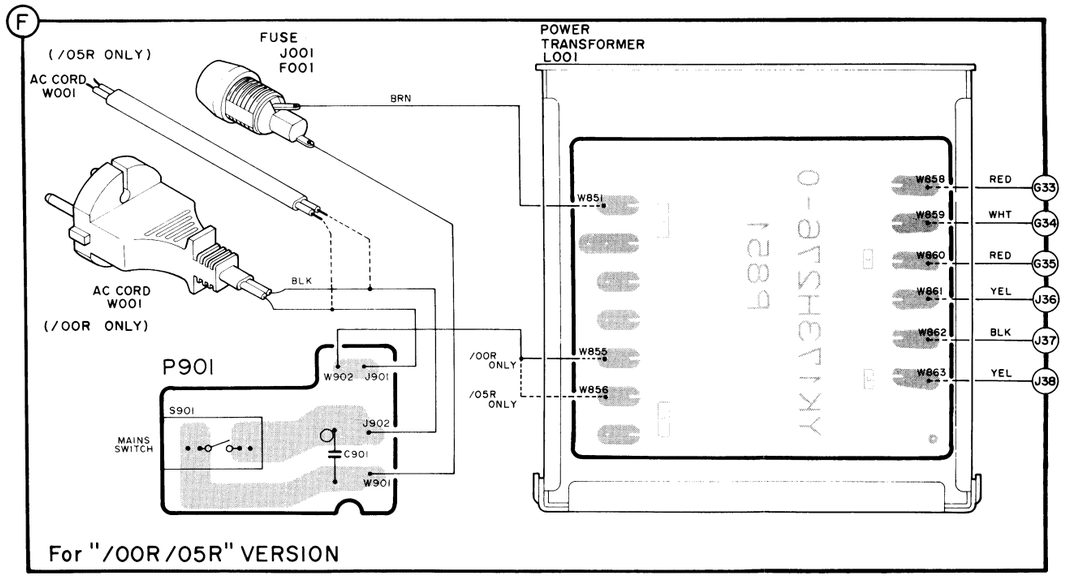
57 R759 R760 R707 R758 R709 R721 R713 R711 R715 ~ R720 R723 ~ R726 R727 R728 R733 ~ R738 R743 ~ R746 RN01 ~ RN06 RN07 ~ RN09 RN10 RN19 RN20 R753 R754 R755 R756 RN58 RN57		R
08 R782 R781 R710 R722 RN11 R714 R712 RN21 R801 R804 R807 R802 R803 R805 R806 R808 R429 R430 RE25 RE26 RN12 RN14 RN15 RN16 RN13 RT01 RT02		
6 C729 C730 C708 C707 C715 C716 C711 C712 C709 C710 C713 C714 C717 ~ C720 C721 ~ C724 C725 C726		C
C785 C786 C781 C782 C801 C802 CN02 C783 C784 C803 C806 C804 C807 C805 C808 C417 C418 CE17 CE18 CN01 CN03 CN04 CN05 C727 C728		
~ D786 VZ01 Q719-1/2 Q719-2/2 D781 D782 VZ51 VZ52 DN03 D801 ~ D808 Q701 Q702 Q801 Q802 Q703 ~ Q706 Q707 ~ Q710 Q711 ~ Q714 DN01 DN02 QN01 QN02 QN03 QN04 DN05 DN06		Q - D - V
L001 LN01 LN02 L701 L702 ST01		L - S

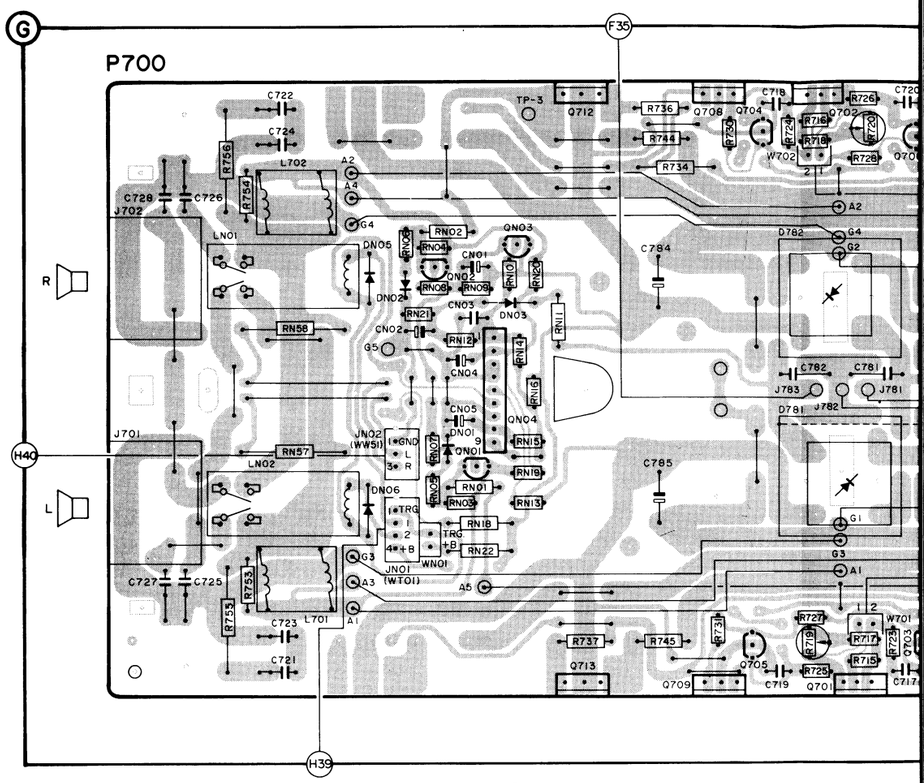


WIRING DIAGRAM

R		R753 ~ R758 RN21 RN01 ~ RN10 RN11 ~ RN16 R736 R744 R734 R730 R724 R725 ~ R729
C	C901	RT01 RT02 RN18 ~ RN20 RN22 R737 R745 R731 R715 ~ R720 R723 R733 C725 ~ C728 C721 ~ C724 CN01 CN05 C784 C785 C718 C782 C781 C719 C717
Q-D-V		DN05 DN06 DN01 ~ DN03 QN01 ~ QN04 VZ52 VZ01 VZ51 Q704 Q705 D782 Q712 Q713 Q708 Q709 D781 Q702 Q701
L-S	S901	LN01 LN02 ST01 L702 L701

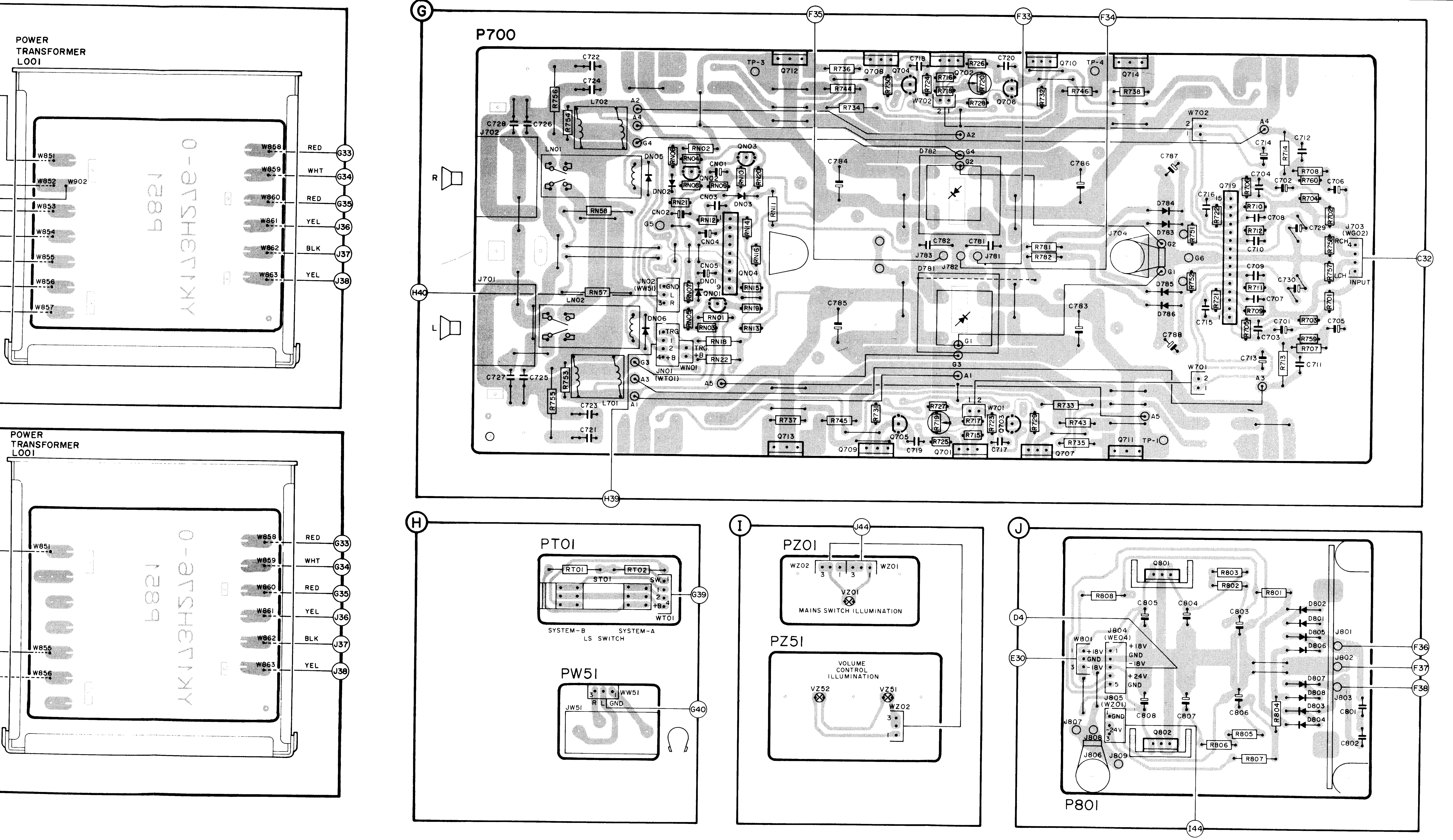






WIRING DIAGRAM

R753 ~ R758 RN21 RN01 ~ RN10 RN11 ~ RN16 R736 R744 R734 R730 R724 R725 ~ R729 R732 R781 R782 R746 R738 R75 R752 R722 R721 R701 ~ R714	R
RT01 RT02 RN18 ~ RN20 RN22 R737 R745 R731 R715 ~ R720 R723 R733 R743 R735 R808 R801 ~ R807 R757 ~ R760	
C725 ~ C728 C721 ~ C724 CN01 CN05 C784 C785 C718 C782 C781 C720 C786 C783 C787 C716 C715 C701 ~ C714	C
C719 C717 C788 C803 ~ C808 C729 C730 C801 C802	
DN05 DN06 DN01 ~ DN03 QN01 ~ QN04 VZ52 VZ01 VZ51 Q704 Q705 D782 Q706 Q703 D783 ~ D786 Q801 Q802 Q719 D801 ~ D808	Q - D - V
Q712 Q713 Q708 Q709 D781 Q702 Q701 Q710 Q707 Q714 Q711	
LN01 LN02 ST01 L702 L701	L - S



Idling Current

SK... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSCILLOSCOPE	D.C. METER INDICATOR
			Min.	Lch R719		Lch TP1(+), TP2(–) DC14mV (39mA) [1]
				Rch R720		Rch TP3(+), TP4(–) DC14mV (39mA) [1]

[1] Adjust R719 (channel L) or R720 (channel R) so that the voltmeter reads 14 mV about 1 minute after the power has been turned on. (Note that the idling current is about 42 mA after the unit has warmed up.)

Carbon film 0.125 W or 0.2 W	70°C	5%	
Carbon film 0.25 W or 0.33 W	70°C	5%	
Metal film 0.25 W or 0.33 W	70°C	5%	
Carbon film 0.5 W	70°C	5%	
Carbon film 0.67 W	70°C	5%	
Carbon film 1 W or 1.15 W	70°C	5%	

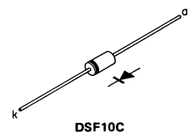
(C) Chip component

Ceramic plate Tuning ⩽ 120 pF NP.0		2%
Others		–20/+80%
Polyester flat foil		10%
Metalized polyester flat film		10%
Polyester flat foil small size (Mylar)		10%
Polysterene film/foil		1%
Tubular ceramic		
Miniature single		
Subminiature tantalum		± 20%

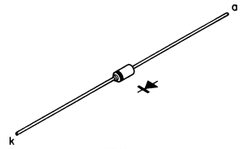
*a = 2.5 V
b = 3.15 V or 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100 V
l = 125 V
m = 150 V
n = 160 V
q = 200 V
r = 250 V
s = 300 V
t = 350 V
u = 400 V
v = 500 V
w = 630 V
x = 1000 V
A = 1.6 V
B = 6 V
C = 12 V
D = 15 V
E = 20 V
F = 35 V
G = 50 V
H = 75 V
I = 80 V

NOTE:
Some withstand voltages of the condensers are shown in both numerical value and symbol on the circuit diagram. If withstand voltage shown in numerical value is different from that in symbol for a condenser, both are applicable.

Semicoductor Layout



DSF10C



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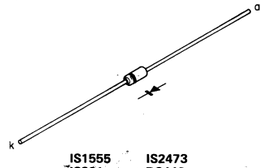

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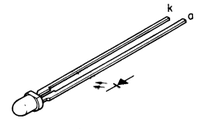
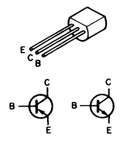
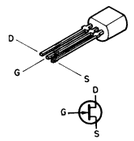


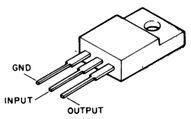
LN88RCPL(MP)



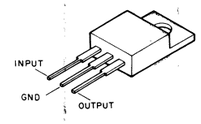
2SA970 2SC2240



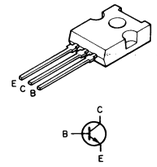
2SK369



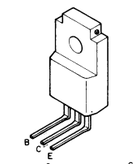
NJM79M18A



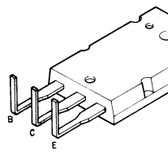
NJM78M18A



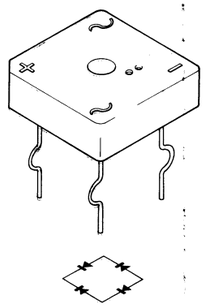
2SD1508

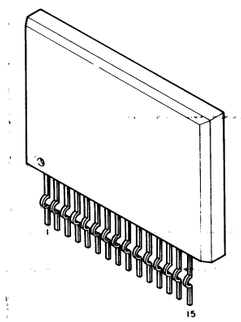


2SA1306 2SC3298



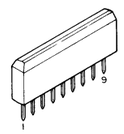
2SC3280 2SA1301


S5VB20



STK3062III

NJM2041D



TA7317P

Mechanical Partslis

001B	4822
002B	4822
003B	4822
004B	4822
005B	4822
006B	4822
007B	4822
008B	4822
009B	4822
010B	4822
011B	4822
012B	4822
013B	4822
014B	4822
015B	4822

Only the mentioned

(GB)
Safety regulations require condition and that parts v used.

(NL)
Veiligheidsbepalingen ver toestand wordt teruggebr gespecificeerde worden t

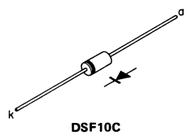
C. METER
IDICATOR

Lch
(+), TP2(–)
4mV (39mA)
1

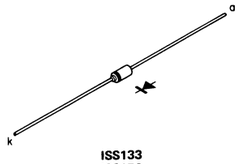
Rch
3(+), TP4(–)
4mV (39mA)
1

*a = 2.5 V
b = 3.15 V
or 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100 V
l = 125 V
m = 150 V
n = 160 V
q = 200 V
r = 250 V
s = 300 V
t = 350 V
u = 400 V
v = 500 V
w = 630 V
x = 1000 V
A = 1.6 V
B = 6 V
C = 12 V
D = 15 V
E = 20 V
F = 35 V
G = 50 V
H = 75 V
I = 80 V

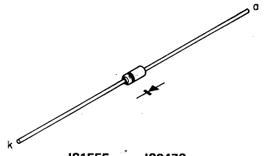
Semicoductor Layout



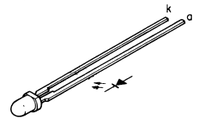
DSF10C



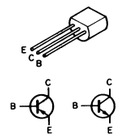
ISS133
ISS176
MA165



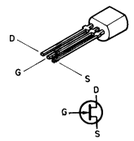
IS1555 IS2473
ISS81 DS448
IS2076 MA150



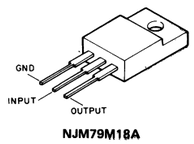
LN88RCPL(MP)



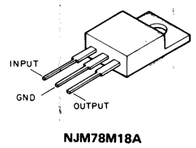
2SA970 2SC2240



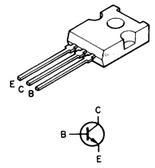
2SK369



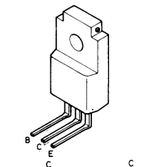
NJM79M18A



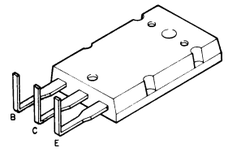
NJM78M18A



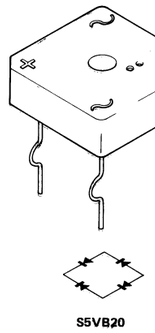
2SD1508



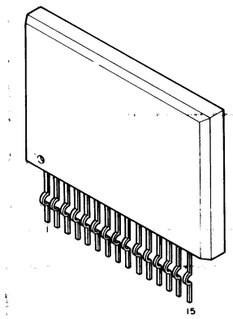
2SA1306 2SC3298



2SC3280 2SA1301

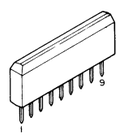


S5VB20



STK3062III

NJM2041D



TA7317P

Mechanical Partslist

001B	4822 426 51136
002B	4822 410 25479
003B	4822 410 24665
004B	4822 412 20987
005B	4822 410 25478
006B	4822 412 20987
007B	4822 412 20986
008B	4822 410 25479
009B	4822 412 20988
010B	4822 404 60342
011B	4822 404 60343
012B	4822 450 60912
013B	4822 410 50157
014B	4822 410 50156
015B	4822 454 40108
016B	4822 404 60341
020B	4822 532 51848
021B	4822 459 80373
022B	4822 255 40756
023B	4822 256 91163
001B, 010B 011B, 012B 013B, 015B 020B	4822 426 51137
025B	4822 380 20251
026B	4822 380 20252
029B	4822 454 40107
016G	4822 505 10895
046G	4822 462 71455
907G	4822 532 51314
002L	4822 502 12161

Only the mentioned parts are normal service parts.

(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

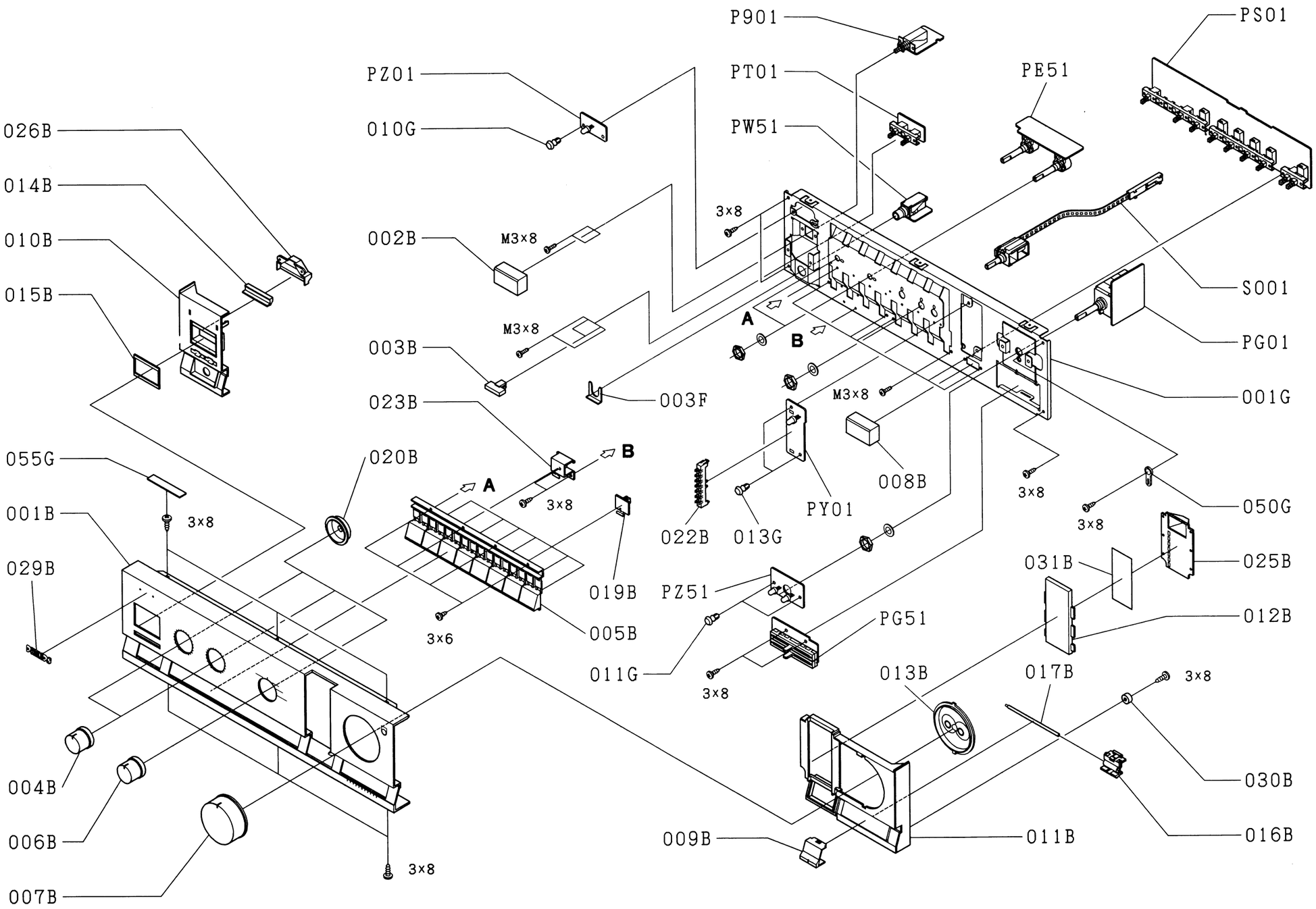
(NL)
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

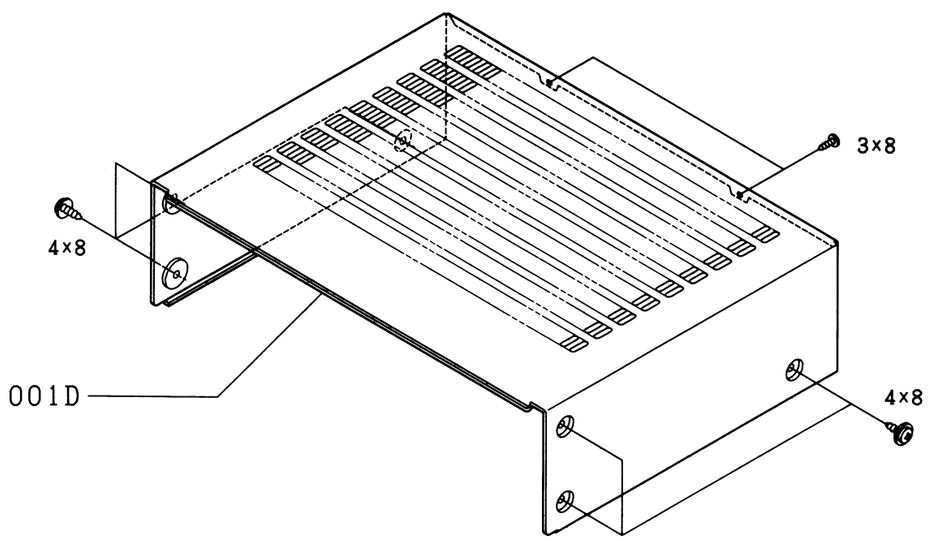
(I)
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

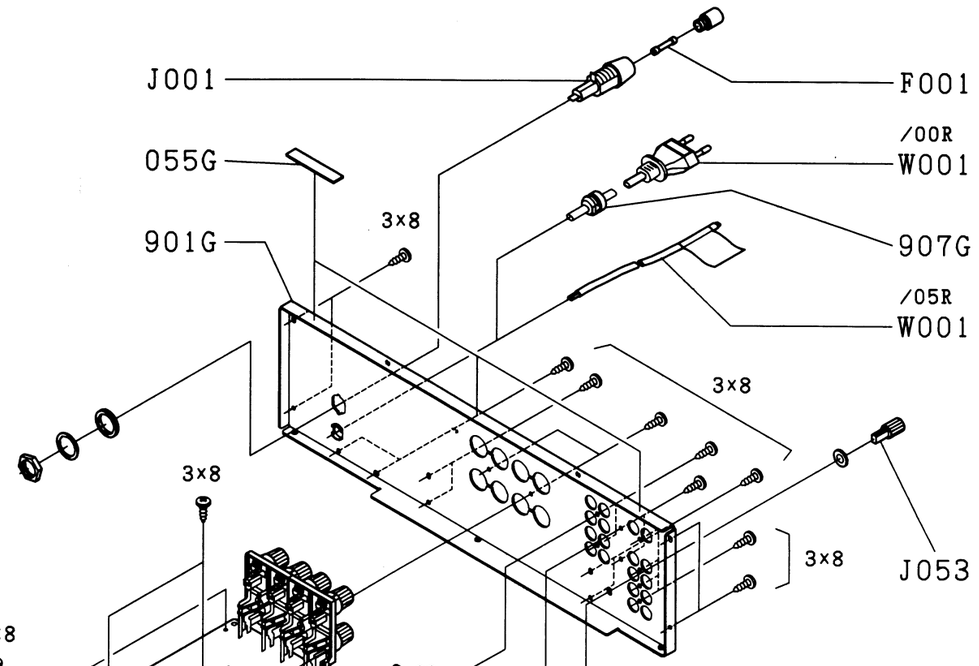
(F)
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

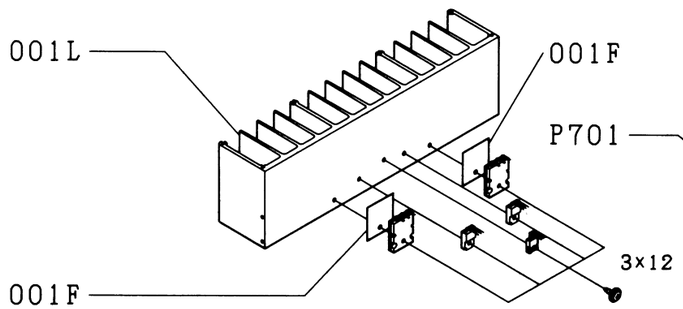
EXPLODED VIEW

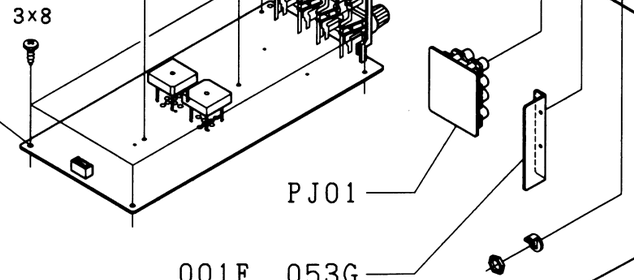


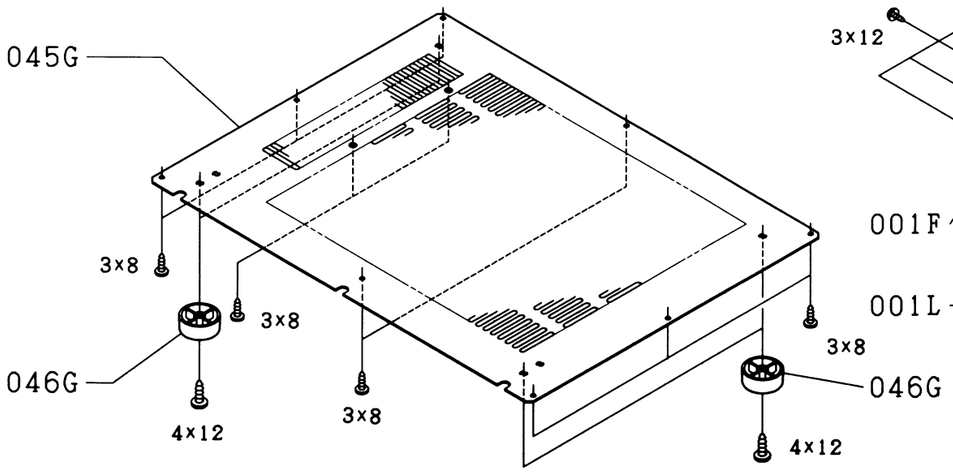
EXPLODED VIEW

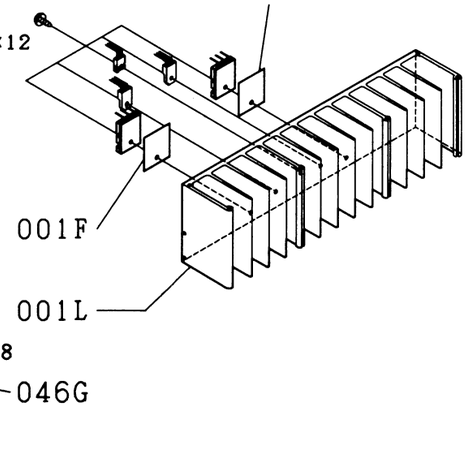


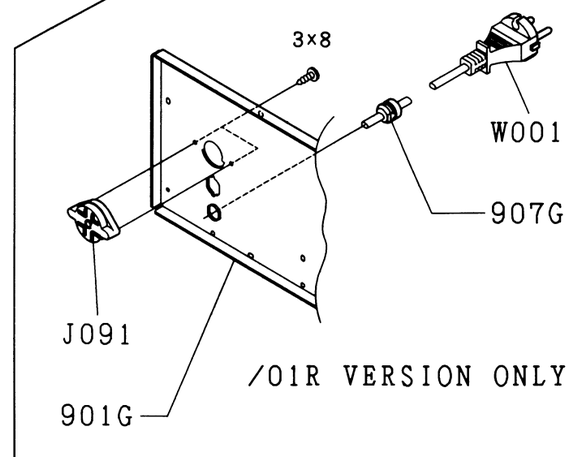




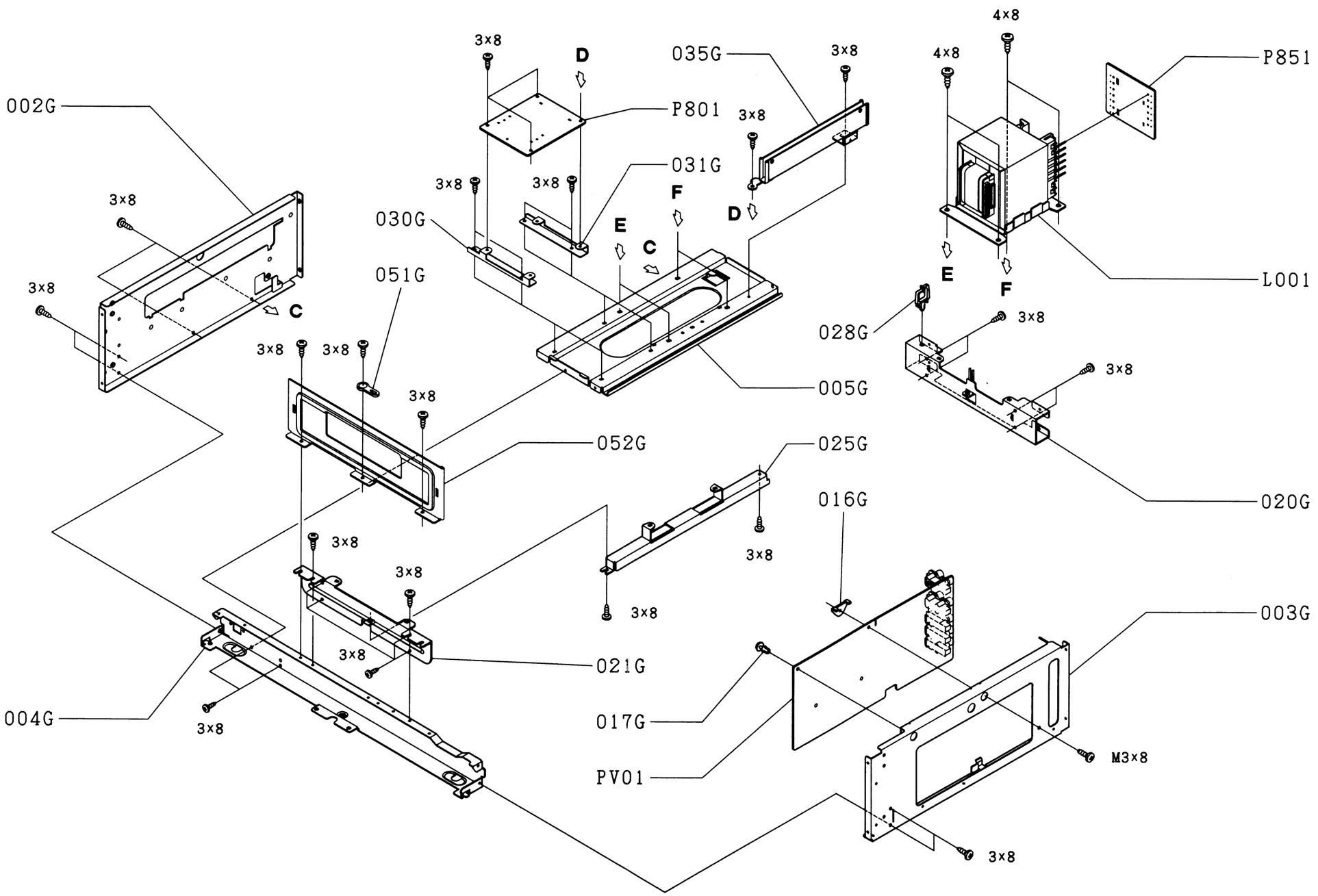








EXPLODED VIEW



ELECTRICAL PARTS LIST

DN01, DN02	ISS81	4822 130 33065
DN03, DN05, DN06	DFS10C	4822 130 32508
DS01	ISS133	4822 130 33305
DS02-DS04	MA1033M	4822 130 33374
DV02, DV03	IS1555	4822 130 31018
DY01-DY07	LN88RCPL	4822 130 33761
D781, D782	S5VB20	4822 130 30984
D783-D786 D801-D808	DFS10C	4822 130 32508

QE01-QE04	2SK369	4822 130 42839
QE05	NJM2041DD	4822 209 81565
QN01, QN02	2SC2240	4822 130 43231
QN03	2SA970	4822 130 42949
QN04	TA7317P	4822 209 83312
Q401-Q404	2SK369BL	4822 130 42839
Q405	NJM2041DD	4822 209 81565
Q701, Q702	2SD1508	4822 130 60526
Q703, Q704	2SC2240	4822 130 43321
Q705, Q706	2SA970GR	4822 130 42949
Q707, Q708	2SC3298	4822 130 60525
Q709, Q710	2SA1306	4822 130 60524
Q711, Q712	2SC3280	4822 130 60116
Q713, Q714	2SA1301	4822 130 60109
Q719	STK3062MK3	4822 209 70689
Q801	NJM78M18A	4822 209 80675
Q802	NJM79M18A	4822 209 83829

CE01, CE02	Mica cap.	47 pF	500 V	4822 123 30086
CE05, CE06	Elect. cap.	100 µF	16 V	4822 124 90038
CE07, CE08	Elect. cap.	33 µF	16 V	4822 124 22099
CE09, CE10	Elect. cap.	100 µF	25 V	4822 124 90063
CE11, CE12	Mica cap.	56 pF	500 V	4822 123 30079
CE13, CE14	Foil cap.	3300 pF	50 V	4822 121 42762
CE51, CE52	Foil cap.	0,047 µF	50 V	4822 121 42764
CE53, CE54	Elect. cap.	0,47 µF	50 V	4822 124 90071
CE55, CE56	Foil cap.	0,015 µF	50 V	4822 121 42757
CE57, CE58	Elect. cap.	0,1 µF	50 V	4822 124 22034
CE61, CE62 CG01, CG02	Film cap.	1000 pF	50 V	4822 121 42861
CN01	Elect. cap.	4,7 µF	50 V	4822 124 90056
CN02	Elect. cap.	0,47 µF	50 V	4822 124 90071
CN04, CN05	Elect. cap.	47 µF	10 V	4822 124 90057
C407, C408	Film cap.	0,047 µF	50 V	4822 121 42764
C409, C410	Film cap.	0,012 µF	50 V	4822 121 42755
C411, C412	Foil cap.	1800 pF	50 V	4822 121 42758
C413, C414	Elect. cap.	22 µF	16 V	4822 124 90048
C415, C416	Foil cap.	3900 pF	50 V	4822 121 42763
C417, C418	Elect. cap.	330 µF	25 V	4822 124 22103
C427, C428	Elect. cap.	47 µF	6,3 V	4822 124 21901
C429, C430	Elect. cap.	10 µF	16 V	4822 124 21894
C701, C702	Elect. cap.	10 µF	50 V	4822 124 90037
C707, C708	Film cap.	1500 pF	50 V	4822 121 42756
C713, C714	Elect. cap.	100 µF	16 V	4822 124 90038
C721-C724	Film cap.	0,22 µF	50 V	4822 121 42759
C729, C730	Elect. cap.	100 µF	63 V	4822 124 22171
C781, C782	Cer. cap.	0,01 µF	500 V	4822 122 30043
C783-C786	Elect. cap.	4700 µF	56 V	4822 124 22169
C787, C788	Elect. cap.	100 µF	63 V	4822 124 22171
C804, C807	Elect. cap.	330 µF	35 V	4822 124 90055
C805, C808	Elect. cap.	220 µF	25 V	4822 124 90049
C806	Elect. cap.	470 µF	35 V	4822 124 22042
C901	Cer. cap.	0,01 µF	400 V	4822 122 40305

RE21, RE22	Safety resistor	560 Ω	1/6 W	4822 111 91289
RE25, RE26 R429, R430	Fuse resistor	47 Ω	1/4 W	4822 111 90731
RE65, RE66	Potm. Bass/treble	10 kΩ		4822 100 20574
RG51	Potm. balance	100 kΩ		4822 105 10898
RN01, RN02	Resistor	1 Ω	1/4 W	4822 111 41272
RN11	Fuse resistor	22 Ω	1/4 W	4822 116 60318
RN57, RN58	Resistor	330 Ω	2 W	4822 116 60262
RS05, RS07	Resistor	2,2 Ω	1/2 W	4822 116 53751
RS08, RS09	Resistor	680 Ω	2 W	5322 116 54398
RS11	Resistor	2,2 kΩ	1/2 W	4822 116 53751
RT01, RT02	Resistor	3,9 kΩ	1 W	4822 116 51137
RY01	Resistor	390 Ω	1 W	4822 116 60265
R411-R414 R427, R428	Resistor	4,64 kΩ	1/6 W	4822 116 53691
R429, R430	Fuse resistor	47 Ω	1/4 W	4822 111 90731
R707, R708	Fuse resistor	1 kΩ	1/4 W	4822 116 60416
R713, R714	Resistor	15 kΩ	1/2 W	4822 116 53083
R719, R720	Trimmer	2,2 kΩ		4822 100 20538
R723-R726	Resistor	100 Ω	1/6 W	4822 111 91285
R727, R728	Safety resistor	1,2 kΩ	1/6 W	4822 111 91287
R733, R734	Resistor	180 Ω	1 W	4822 116 60342
R735, R736	Resistor	2,2 Ω	1/4 W	4822 116 52348
R737, R738	Resistor	10 Ω	1/4 W	4822 111 41271
R743-R746	Resistor	0,18 Ω	5 W	4822 116 80153
R751, R752	Safety resistor	22 Ω	1/6 W	4822 111 91288
R753, R754	Safety resistor	220 Ω	1/4 W	4822 111 30803
R755, R756	Safety resistor	10 Ω	2 W	4822 111 90726
R759, R760	Safety resistor	10 kΩ	1/6 W	4822 111 91286
R781, R782	Fuse resistor	1 Ω	1/2 W	4822 116 60306
R801, R804	Resistor	1,2 Ω	1/4 W	5322 116 53283
R802, R805	Fuse resistor	10 Ω	1/4 W	4822 115 90166
R803, R806	Resistor	10 Ω	1/4 W	4822 111 41271
R807	Fuse resistor	180 Ω	1/2 W	4822 116 60317
R808	Resistor	82 Ω	1 W	4822 116 60364

Miscellaneous

F001	Fuse T 1,6A	4822 253 30191
F401-F408	Ferrite core	4822 526 10356
JJ01	Socket	4822 265 30512
JJ02	Socket	4822 265 40581
JV01	Connector	4822 266 30283
JV02	Connector	4822 266 30285
JW51	Jack headphone	4822 267 30617
J001	Fuse holder	4822 256 30233
J053	Socket	4822 266 10058
J403	Connector	4822 266 30282
J701	Connector loudsp.	4822 266 30281
J702	Connector loudsp.	4822 266 30279
LN01, LN02	Protection relay	4822 280 20275
LV02	CD-direct relay	4822 280 20195
L001	Power transformer	4822 146 21218
L701, L702	Choke coil	4822 157 51739
SS01	Switch loudn./mono	4822 276 30392
SS02	Switch monitor/copy	4822 276 40401
SS03	Switch CD-direct	4822 276 20453
ST01	Switch speaker	4822 276 20452
SV01	Switch slide	4822 277 20832
S001	Switch input sel.	4822 273 20258
S901	Switch power	4822 276 12026
VY01, VZ01 VZ51, VZ52	Lamp 8 V 50 mA	4822 134 40751